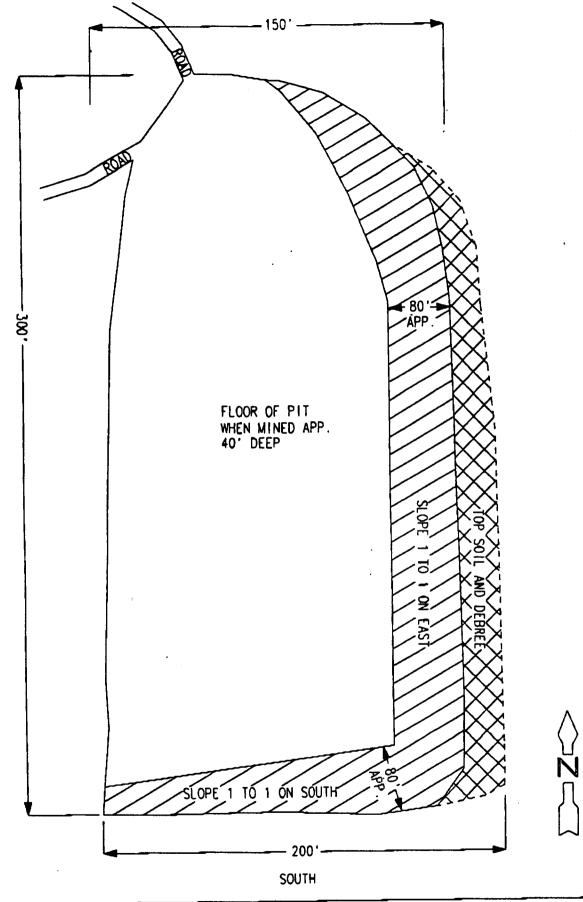
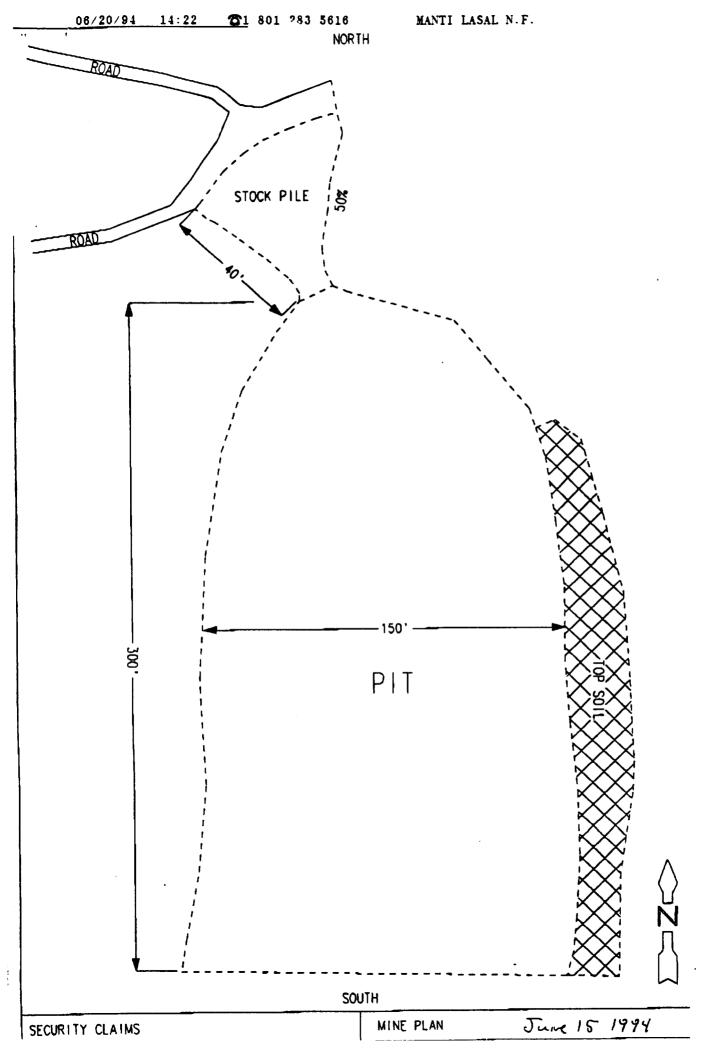
TU.S. DEPARTMENT OF AGRICULTURE	1.110.0
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"Wayne Healt 355 West Nort Triad Center,	ug
Joseph North	h Temple
Salt Lake City	utuh 84180-1203
ACTION	NOTE AND RETURN
APPROVAL	PER PHONE CALL
AS REQUESTED	RECOMMENDATION
FOR COMMENT	REPLY FOR SIGNATURE OF
FOR INFORMATION	RETURNED
INITIALS	SEE ME
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REMARKS Enclosed a	ce the site
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data that we	
	e on 6/24/94-
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6/24/94 Wayne Hedburg 355 West Worth Temple Triad Center, Suite 350 South Luke C. ty., which 84180-1201 Endraed are the site drawings and equip. dode that we discussed over the phone on bloglash Stelle, Danie Security 6 Joseph Mine man Levier 1 - 1 Michael La Sal W.F. Mostly Born

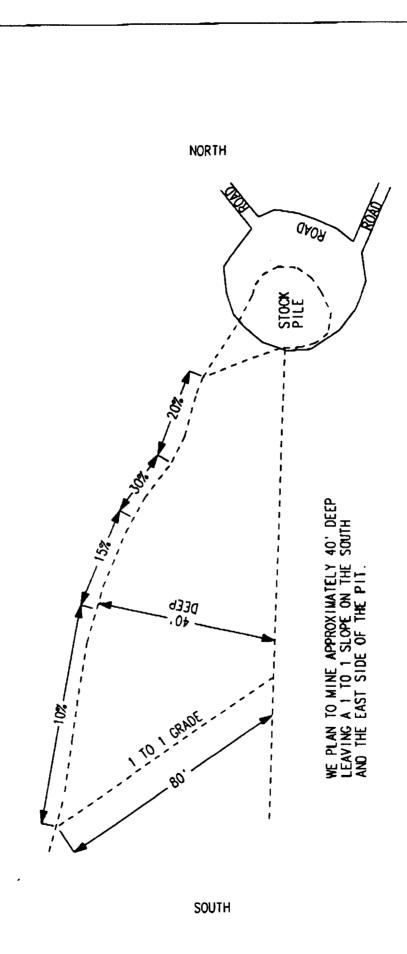


SECURITY CLAIMS	MINE PLAN	June 15 1994
LEVAN UTAH	SCALE: APP. 1' = 25'	



Ø 006







RR-250

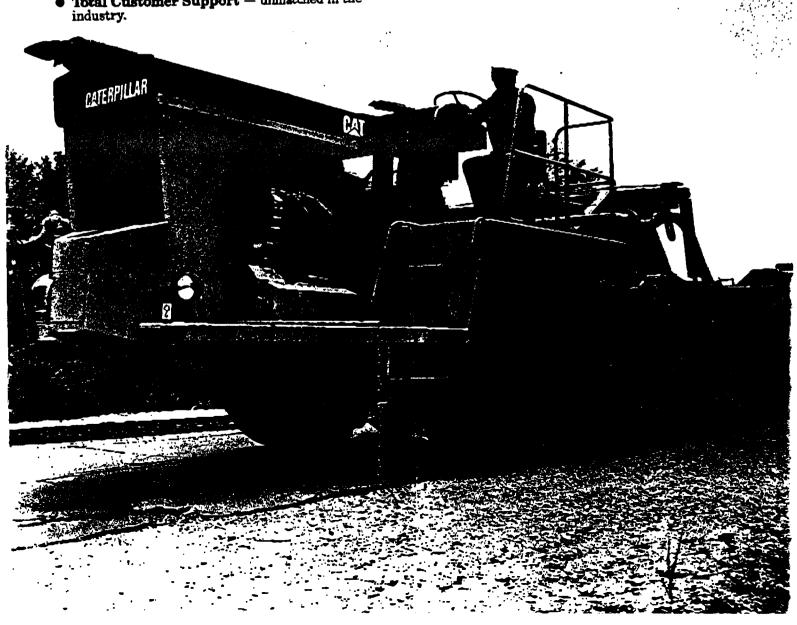
ROAD RECLAIMER

- Maximum Production rotor driven by Cat turbocharged Diesel Engine through mechanical drive system.
- Highly Efficient load-sensing propel system helps prevent overloading while allowing continuous work near rated horsepower.
- Extremely Versatile interchangeable rotors provide both reclamation and stabilization capabilities.
- Consistent Blending automatic depth control, mid-mounted mixing chamber and multi-speed rotor drive combine for optimum blending and increased production.
- Total Customer Support unmatched in the

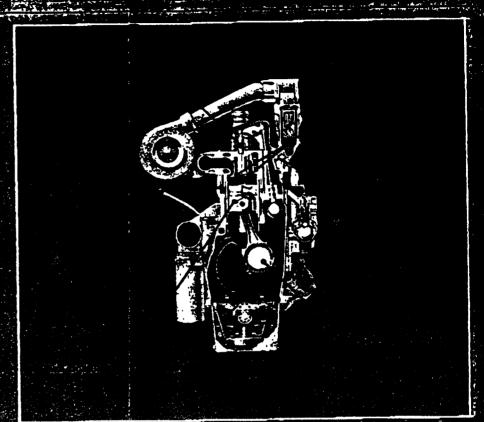
■ Cat 3406B Diesei Engine	.250 kW/335 hp
Cutting Width	2438 mm/96'

Cutting Depth (std. rotor) .

s shown may have optional equipment.



Cate 3406 BAnging

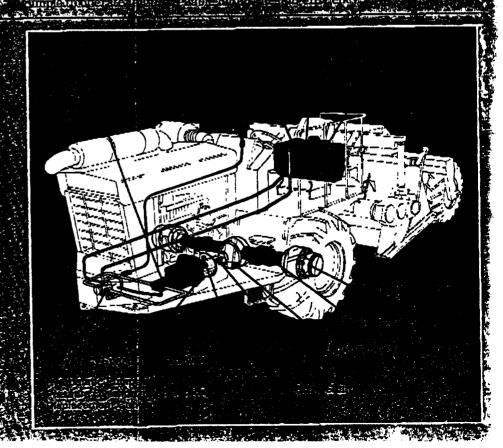


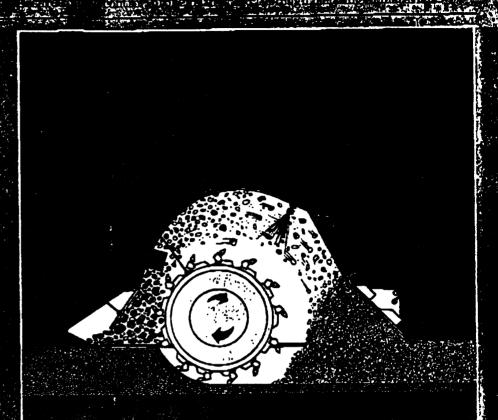
- speed and discount of speed.

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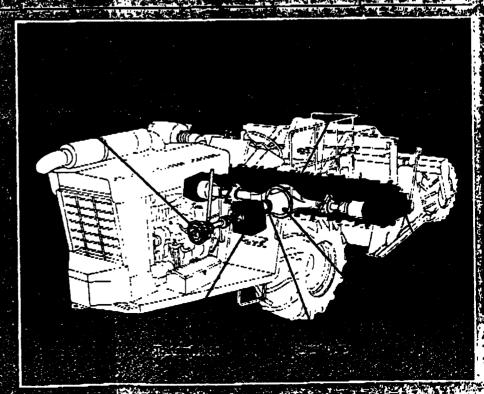
 Speed 21 km/hr supp.

 For a sensor





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Operators Station

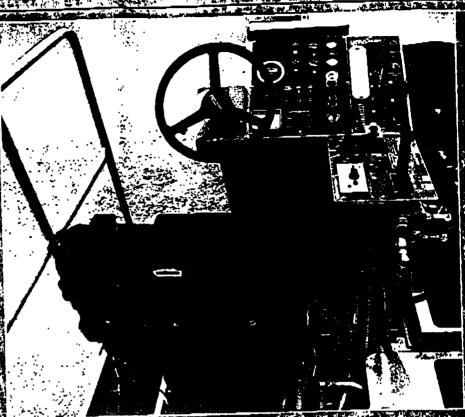
Convenient for operation constitute

includes tach system gang Comus Tab Ungel was de

Shirt Le destrokes proper name and

engages wheel brakes to sur is machine.

Hear Steering topuon cul-jurning radius in half for maneuvering in tight quart



Cat Electrical numbered wiring harnesses in numbered wiring harnesses in easy troubleshooping. Keyl wrapped for cult redistances.

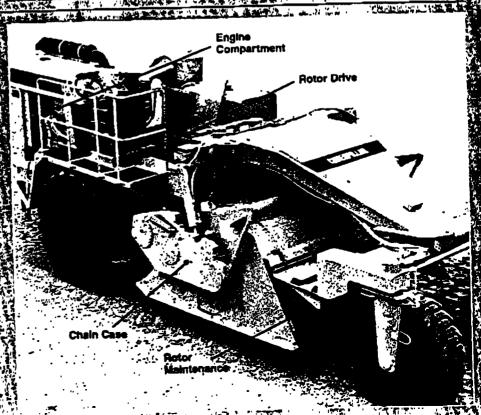
Cat batteries.

Hinged Service Loort wide or top dack for access rotor drive, including shear in and bolt.

and bolt.

Rotor Maintenance. dir in, knock-out cutter bits. Rotes hood and rear door lock up and access to rotor. Tooth puller included with machine tool box.

☐ Self-lubricating Rotor Drive Chains, in sealed chain cases: partially filled with oil.



Additive System

processed material with asphalt empisions or other additives

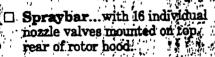
Additive Printy positive of displacement painty applies liquid additives investigately range of 10 to 1000 centrouses at flow rates of 88 to 70 lipingly to 200 sprin.

Flow Meter reads printp dittput and signals flow madout box speed sensor sprint and sprints and signals flow painty and signals flow painty and signals flow speed signals flow speed signals flow applications and signals flow speed signals flow applications and signals flow speed signals flow applications and signals flow speed signals flow applications are speed signals flow applications and signals flow applications are speed signals flow applications and signals flow applications are speed signals.

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Speed Sensor: speed signal to spin control box.

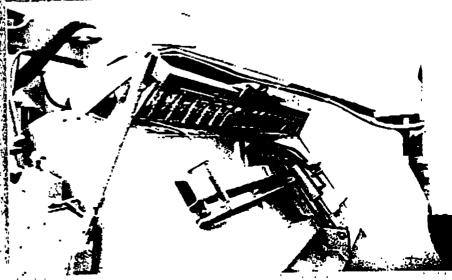
Control Box activates electronic system. Regulates output of additive pump according to machine speed and preset flow rate in AUTO mode. MANUAL mode for cleaning and testing or running system in the event of automatic control system. Shows flow rate and totalized flow: through flow meter; Easily visible from operator's seat.



- ∴ Three Nozzle Options...for. matching specified flow rates to assure accurate delivery. 7 2
- ☐ Recirculation Valve...it end of spray bar automatically shuts when nozzle valves are open. Opens for system cleaning or to return additives to supply truck







CIFICATIONS



Diesel Engine

Gross power @ 2100 rpm......250 kw/335 hp

Caterpillar® 3406B turbo-charged diesel engine.

Gross horsepower based on SAE J1349 standard conditions 25°C/77F and 100 kPa/29.61" hg, using 35 API gravity fuel and engine equipped with fuel, lube oil and jacket water pumps. No derating required up to \$200 m/10,500 ft altitude.

Four-stroke/cycle diesel engine with six cylinders, 137 mm/5.4" bore, 165 mm/6.5" stroke and 14.6 liter/893 cu in displacement.

Air cleaner - dry type with restriction indicator.

24-volt electrical starting system with 55-amp alternator and two 12-volt Caterpillar batteries.

Propel System

Hydrostatic transmission consists of a variable displacement pump driving a fixed displace-

ment motor. Motor drives a three-speed transmission and steerable drive axle with planetary gear reduction at each drive. Speeds are infinitely variable throughout the three speed ranges. Electronic shift lock prevents shifting while the machine is moving. Electronic displacement control and load sensing system can be used to match propel speed to load on rotor. Pressure limiting relief valves provide secondary overload protection.

Speeds:	
---------	--

Working	0-54 mpm/0-176 fpm
Intermediate:	0-8.3 kpn/u-5.2 mpn
Travel:	0-21 km/h/ 0-13 mph



Tires

Front: . .23.5 x 25-16 ply Lug Type E-2, 45 psi Rear: ...15.5 x 25-8 ply Lug Type L-2, 30 psi

Tires fluid filled (calcium chloride). Rear wheels pivot 180° to positions inside or outside of cut.



Fabricated from heavy gauge steel plates, rolled sections and structural steel shapes.

Frame joined to rear bolster with heavy-duty horizontal pin to allow rear bolster oscillation of 15°.



Brakes

Service - Closed-loop hydrostatic drive provides dynamic braking.

Secondary — Hydraulic drum wheel end brakes. Propel pump is destroked when pedal is depressed to aid in stopping machine.

Parking - Spring-applied, hydraulically-released installed on drive axle. Propel pump destroked when parking brake is engaged.

Rotor Drive System

Operates through engine P.T.O. clutch. Three rotor speeds are created through the rotor drive axle and rotor transmission. Choice of rotor speeds permits working in wide range of material types and

depths. Single strand, 135,000 lb rotor drive chains on both sides are contained in heavy-duty chain cases. Shear disc and bolt arrangement protects rotor drive components.

Dotor Speeds:

MANTI LASAL N.F.

HOIDI Sheen	71	
TRAN	DRIVE	MAX RPM
Low	Low	124
Low	High	168
High	Low	284



Standard Reclaiming Rotor

Standard mill drum rotor equipped with weldon replaceable base blocks and replaceable,

weld-on tooth holders. Replaceable, bolt-on segmented end rings protect drum edges from wear. Breakaway tooth holder rotor with bolt-on tooth holders also available. Allows for fast tooth holder replacement without welding.

Stabilization Rotor Options:

Stabilization Hotel Options				
HOTOR	DIA.	FEETH	CUT	MAX. DEPTH
Standard Chopper	1220 mm/	78	<u>U</u> p	381 mm/ 15″
Standard Straight	1220 mm/ 48"	78	Up	381 mm/15"
Quick Change	1220 mm/	58	Up	381 mm/15"
Deep Mix Chopper	1872 mm/	78	Down	457 mm/18"
Deep Mix Straight	1220 mm/	78	Down	457 mm/18"



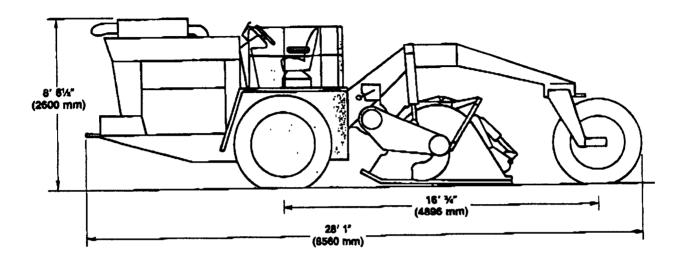
Equipped with hydraulic power assist system for smooth, firm machine handling. System

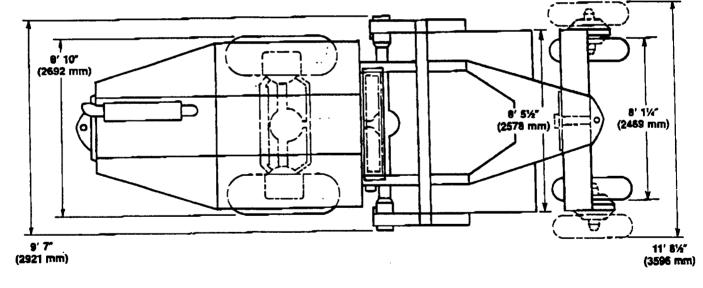
includes two 76 mm/3" bore, double-acting steering cylinders powered by a vane-type pump. Pump output is 9 lpm/5gpm @ 1200 rpm with 689 kPa (6.8 bar)/100 psi.

Minimum Inside Turning Radius: Standard.....12,19 m/40'



Dimensions







Service RefIII Capacities

SERVICE ITEMS	LITERS	U.S. GALLONS
Fuel tank	416	110
Cooling system	61	16
Crankcase	34	9
Differential (propel)	7,5	2
Wheel ends (each)	3.31	.88
Hydraulic system	200	53
Rotor cooling reservoir	56	15
Rotor bearing lube	8,8	1



Operating Dimensions

DIMENSION	METERS:	PEET
Length	8,56	28′ 1″
(rear steer)	8,64	28' 4 ¹ /4"
Width (wheels in)	2,9	9′ 7"
(wheels out)	8.5	11' 814"
Wheelbase	4,89	16' %"
(rear steer)	4,97	16′ 4″
Height	2,6	8' 61/4"
Weight	17,876 kg	39,300 lb
(on front wheels)	11,975 kg	26,400 lb
(on rear wheels)	5,851 kg	12,900 lb

RR-250



Optional Equipment

Roll Over Protective Structure (ROPS) — Designed to meet SAE recommended practice J1040c. Can be field installed.

FPM Indicator — Measures machine speed and displays it on analog readout. Helps operator maintain efficient speed for higher production. Meters per minute display available.

Working Light Package — Four adjustable flood lights. Two positioned in front and two in rear. For use under working conditions, not highway transport purposes.

Cab — with heater, defroster and air conditioner.

Rear Wheel Steering — For greater maneuverability and tighter turning radius. Hydraulically controlled by the operator, it reduces turning radius to 6,1 m/20'. Rear wheels can pivot to positions inside or outside the rotor cutting width.

Liquid Additive System — Improves processed material with precisely metered liquid additives through a flow range of 40-750 liters/10-200 U.S. gallons per minute. System includes pump and strainer, in-line flow meter, FPM indicator, control box, spray bar with hydraulic shut-off and three sets of spray nozzles to cover wide flow range.

Water Spray System — For accurate addition of water to processed material. System includes 190-1135 liters/50-300 U.S. gallons per minute centrifugal pump, 76 mm/3" in-line flow meter, spray bar with nozzles and hydraulically operated single valve spray bar shut-off.

Value Analysis

Cat Diesel Engine

- Adjustment-free fuel system.
- Performance matched turbocharger.
- Full-range, hydra-mechanical governor.
- High strength cast iron alloy cylinder blocks.
- Cast aluminum alloy, three-ring design pistons.
- · Steel forged, heat treated crankshaft.

Propel System

- Three-speed, hydrostatic transmission for optimum efficiency.
- Load-sensing control system prevents engine overloading and maximizes production.
- Hypoid gearing provides 30% more torque capacity and longer life to propel axle.
- High traction differential delivers 24% more torque for better traction.
- Axle shafts heat treated for extreme surface hardness.
- High capacity roller bearings for heavy load carrying capacity and longer life.

Mechanical Rotor Drive

- Efficient transfer of engine power to rotor for maximum force to each tooth tip.
- Three usable rotor speeds for matching rotor performance to application demands.
- Heavy-duty drive chains on both rotor ends for increased service life.
- Easy-to-replace shear bolt protects rotor drive components.

Mixing Chamber and Rotor

- Mid-machine rotor location uses machine weight to keep machine steady in the cut for uniform depth.
- Interchangeable reclamation and stabilization rotors for added versatility.
- Automatic rotor depth control for quality results and ease of operation.
- Heavy-duty rotor hood with hydraulically controlled rear door maintains proper material volume and controls mix size and uniformity.
- Breaker bar inside hood aids in material sizing.

Operator's Station

- Uncluttered platform with padded adjustable seat.
- Conveniently located controls.
- Highly visible instruments and gauges.
- Shift lock-out prevents shifting propel system on-the-go.
- Automatic load-sensing simplifies operation.

CATERPILLAR®